

CLAIMS:

5

1. End closure member (1) with at least one feed-through (5), characterized in, that the end closure member (1) has at least one through-going feed-through opening (2), whereby the through-going feed-through opening (2) cross-section varies along the end closure member (1) longitudinal axis.

10

2. End closure member (1) according to claim 1, characterized in, that the ratio between the area of the smallest through-going feed-through opening cross-section and the area of the largest through-going feed-through opening cross-section is ≤ 1 and > 0 , preferably the ratio is ≤ 0.5 and > 0 , more preferably the ratio is ≤ 0.2 and > 0

15

and/or the difference between the area of the largest through-going feed-through opening cross-section and the area of the smallest through-going feed-through opening cross-section is $> 0 \text{ mm}^2$, preferably the difference between the areas is $\geq 1.5 \text{ mm}^2$, more preferably the difference is $\geq 5.0 \text{ mm}^2$, and most preferably the difference is $\geq 13.4 \text{ mm}^2$.

20

3. End closure member (1) according to claims 1 to 2, characterized in, that the end closure member (1) is a metal, a metal alloy, a coated metal, a metal assembly, and/or a cermet material, preferably a cermet, and most preferably the cermet material has a gradient.

25

4. End closure member (1) according to claims 1 to 3, characterized in, that the end closure member (1) is substantially tubular shaped, preferably the shape has a profile from the group comprising a cork, a disk, a plug, and/or an end cap.

30

5. End closure member (1) according to claims 1 to 4, characterized in, that the end closure member (1) feed-through entry opening (8) cross-section is larger than the feed-through exit opening (9) one.

6. End closure member (1) according to claims 1 to 5, characterized in, that the longitudinal feed-through opening (2) cross-section has the form of a cone, a parabola, a hyperbola, an ellipse, a hemisphere, a Y-profile, an X-profile, a T-profile, or
5 a V-profile.

7. End closure member (1) according to claims 1 to 6 with connection means (10), whereby the feed-through (5) is gas-tight connected in the feed-through opening (2), and whereby the gas-tight connection is formed at least close to the area of
10 the feed-through exit opening (9), preferably located directly at the feed-through exit opening (9).

8. Gas-tight high-pressure burner (11) comprising at least one end closure member (1) with a feed-through (5) according to claims 1 to 7.

15 9. Lamp, comprising at least one gas-tight high-pressure burner (11) according to claim 8, whereby the lamp is preferably arranged in an automotive headlamp unit.

20 10. Method of manufacturing a gas-tight high-pressure burner (11) comprising

- a) at least one end closure member (1) according to claims 1 to 7, and
 - b) at least one discharge vessel (3) with at least one end opening (4),
- whereby the manufacturing method comprises the steps:

- 25 i) filling said discharge vessel (3) with an ionisable filling through at least one feed-through opening (2), and
- ii) closing said feed-through opening (2) by arranging a feed-through (5) in said feed-through opening (2) followed by gas-tight connecting said feed-through (5) with the end closure member (1), whereby a gas-tight high-pressure
30 burner (11) is obtained.